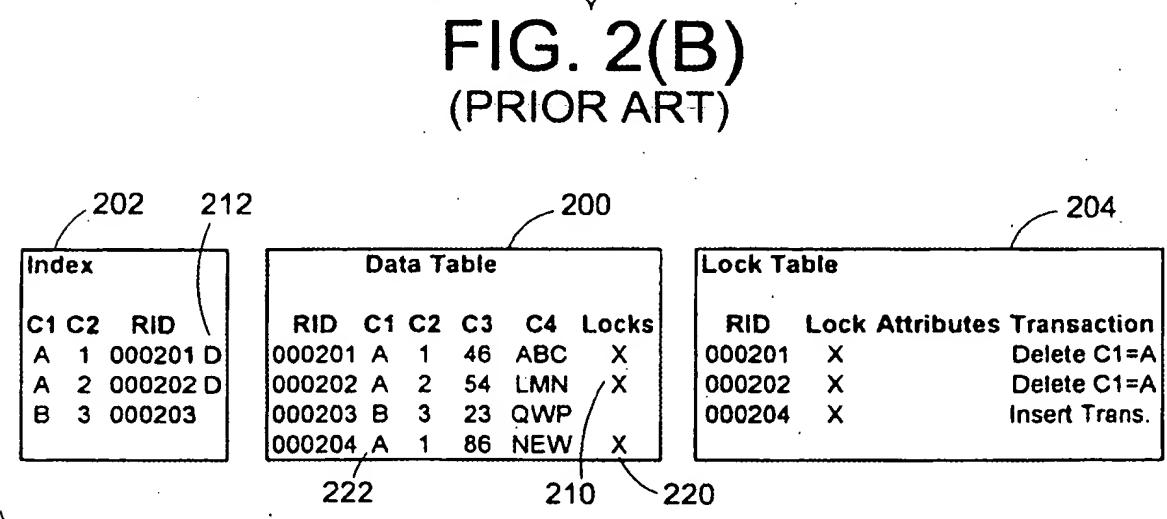
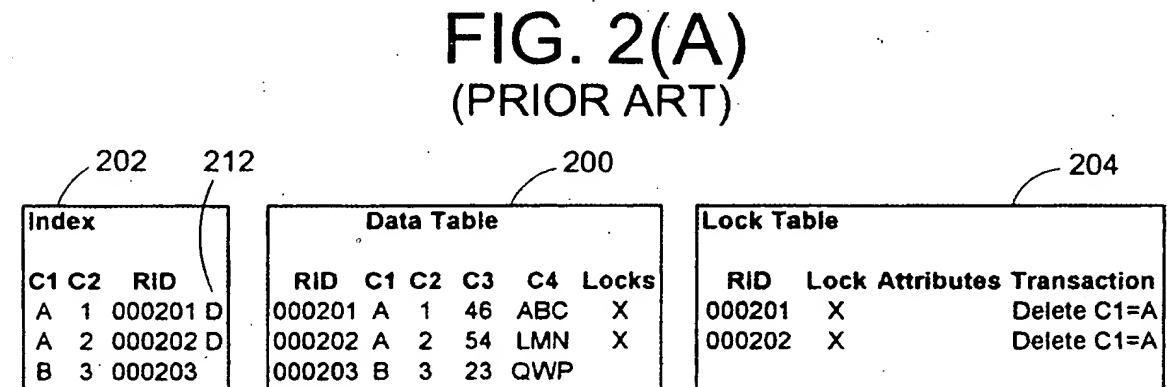
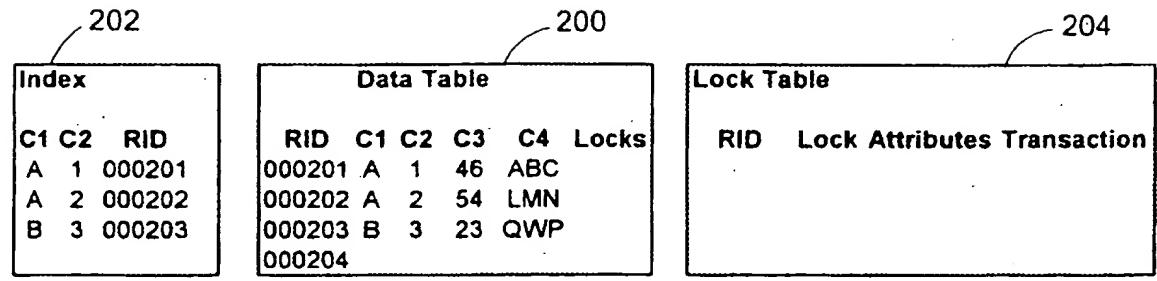


FIG. 1



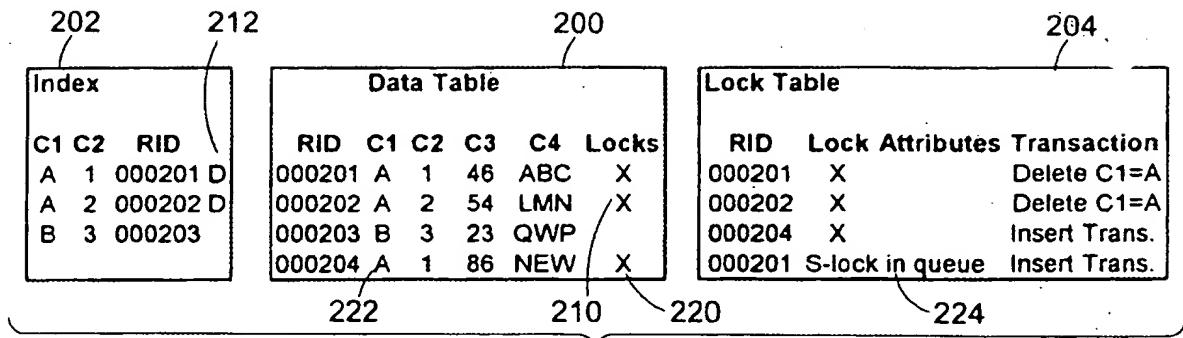


FIG. 2(D)
(PRIOR ART)

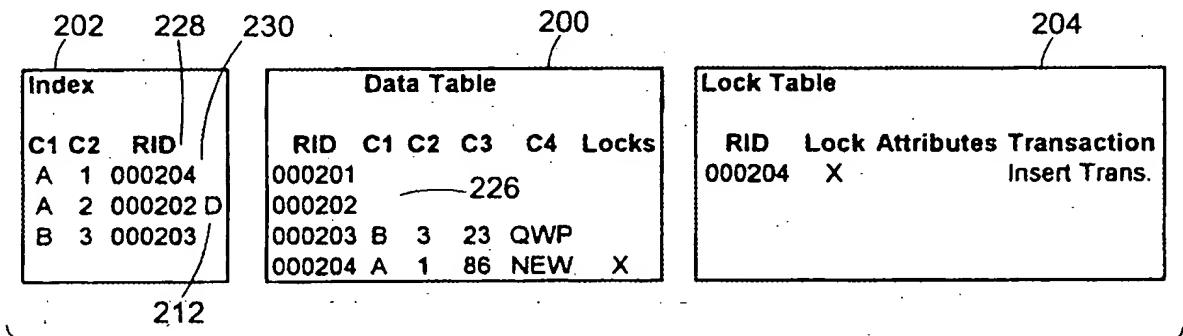


FIG. 2(E)
(PRIOR ART)

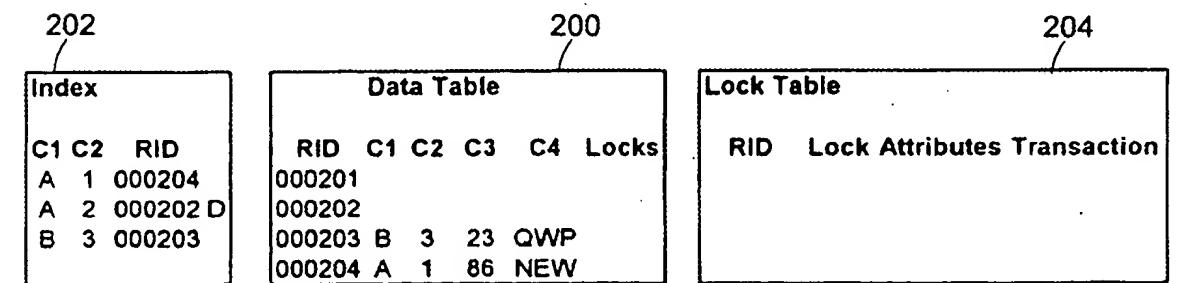


FIG. 2(F)
(PRIOR ART)

302

300

304

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201	000201	A	1	46	ABC				
A	2	000202	000202	A	2	54	LMN				
B	3	000203	000203	B	3	23	QWP				
B	4	000204	000204	B	4	97	VED				

FIG. 3(A)
(PRIOR ART)

302

312

300

304

310

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201 D	000201	A	1	46	ABC	X	000201	X	T1
A	2	000202 D	000202	A	2	54	LMN	X	000202	X	T1
B	3	000203 D	000203	B	3	23	QWP	X	000203	X	T2
B	4	000204 D	000204	B	4	97	VED	X	000204	X	T2

FIG. 3(B)
(PRIOR ART)

302

312

300

304

314

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201 D	000201								
A	2	000202 D	000202								
B	3	000203 D	000203								
B	4	000204 D	000204								

FIG. 3(C)
(PRIOR ART)

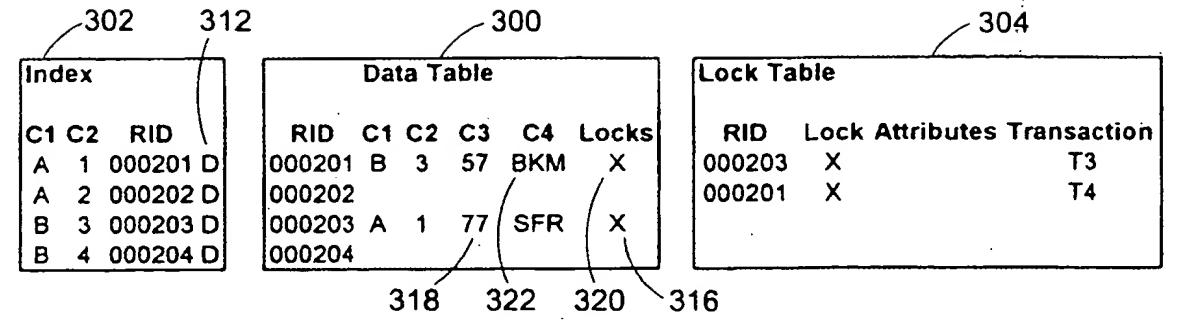


FIG. 3(D)
(PRIOR ART)

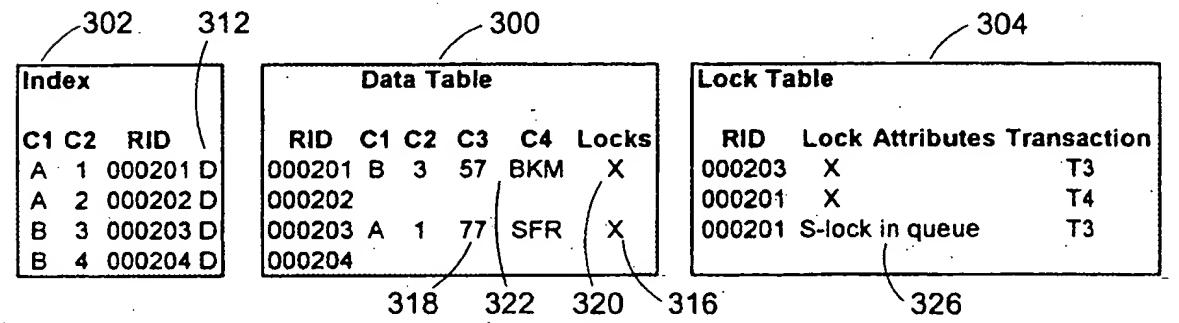


FIG. 3(E)
(PRIOR ART)

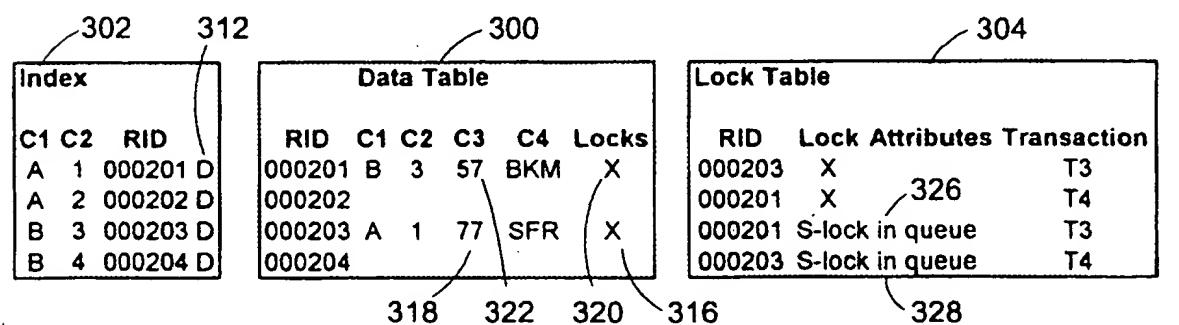


FIG. 3(F)
(PRIOR ART)

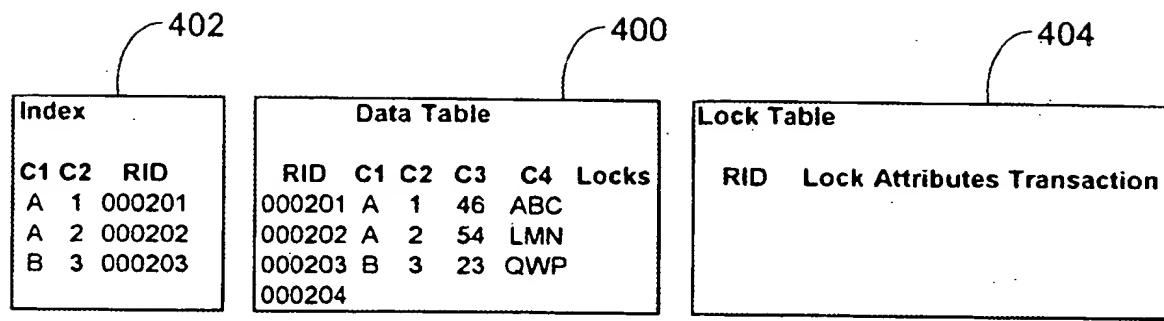


FIG. 4(A)

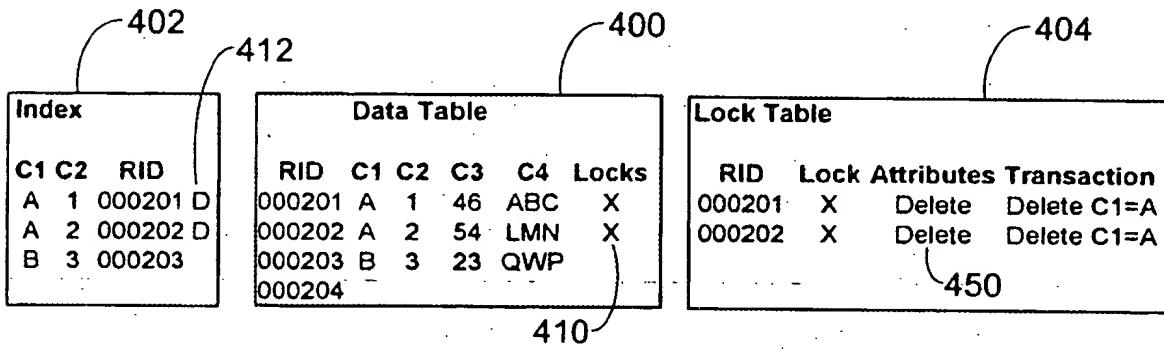


FIG. 4(B)

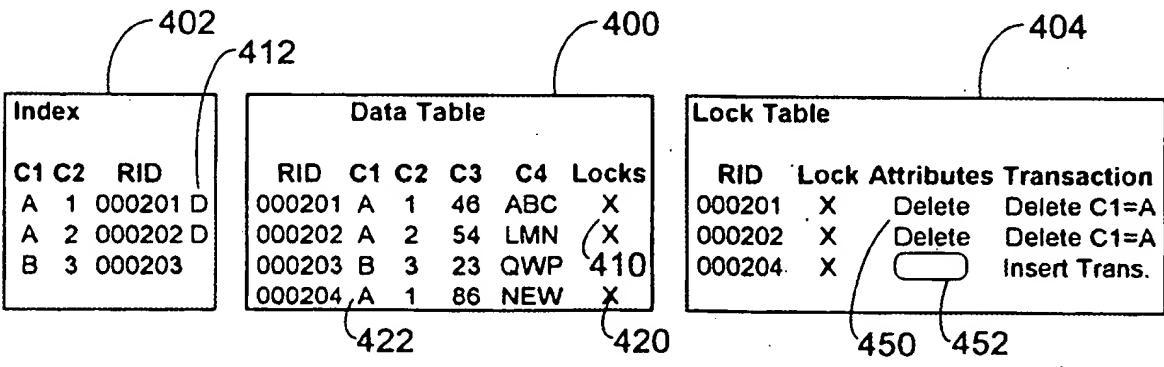


FIG. 4(C)

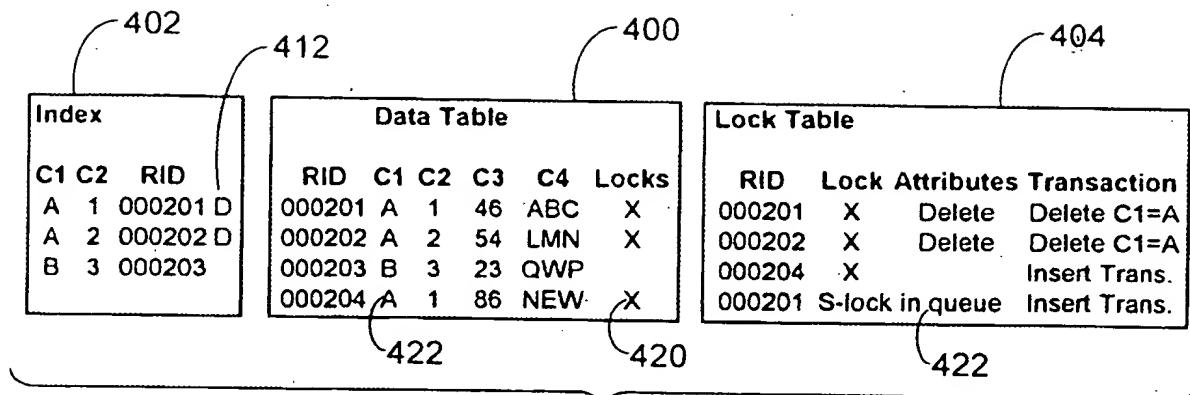


FIG. 4(D)

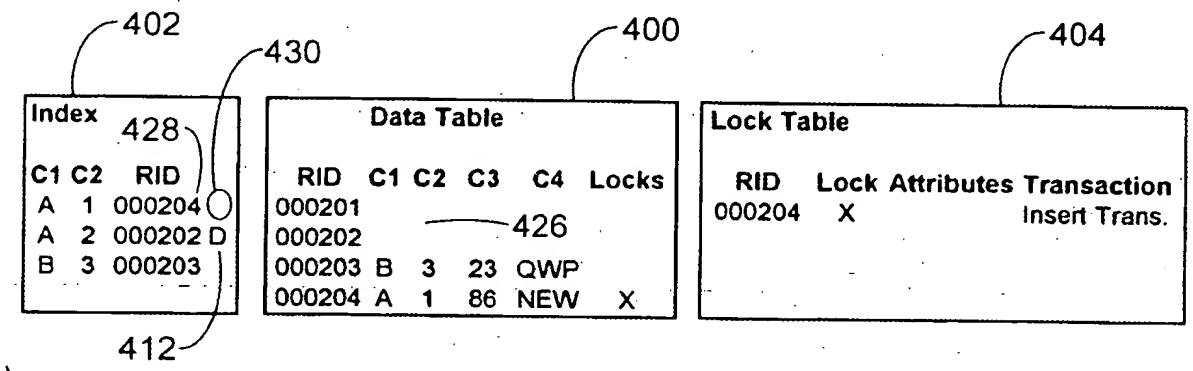


FIG. 4(E)

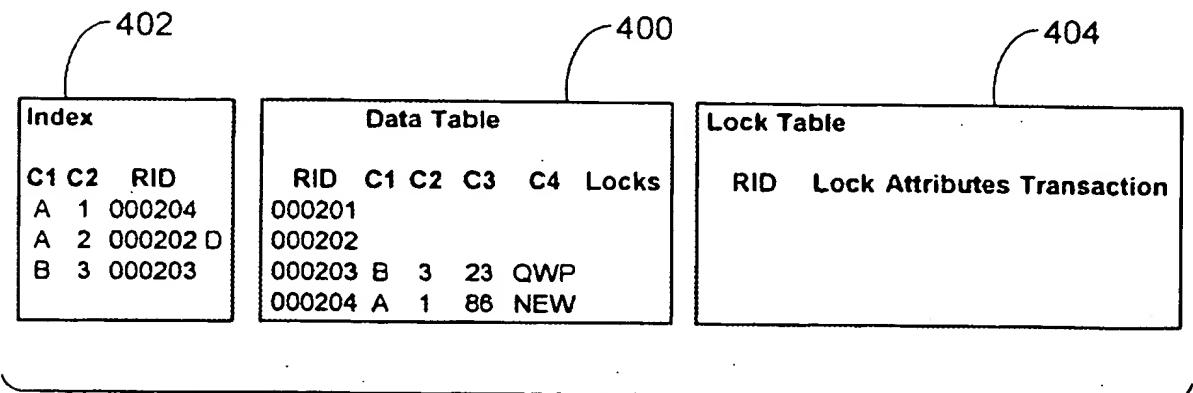


FIG. 4(F)

502 500 504

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201	000201	A	1	46	ABC				
A	2	000202	000202	A	2	54	LMN				
B	3	000203	000203	B	3	23	QWP				
B	4	000204	000204	B	4	97	VED				

FIG. 5(A)

502 512 500 504

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201 D	000201	A	1	46	ABC	X	000201	X	Delete T1
A	2	000202 D	000202	A	2	54	LMN	X	000202	X	Delete T1
B	3	000203 D	000203	B	3	23	QWP	X	000203	X	Delete T2
B	4	000204 D	000204	B	4	97	VED	X	000204	X	Delete T2

FIG. 5(B)

502 512 500 504

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201 D	000201								
A	2	000202 D	000202								
B	3	000203 D	000203								
B	4	000204 D	000204								

FIG. 5(C)

502 512 500 504

Index		Data Table					Lock Table				
C1	C2	RID	RID	C1	C2	C3	C4	Locks	RID	Lock Attributes	Transaction
A	1	000201 D	000201	B	3	57	BKM	X	000203	X	T3
A	2	000202 D	000202						000201	X	T4
B	3	000203 D	000203	A	1	77	SFR	X			
B	4	000204 D	000204								

FIG. 5(D)

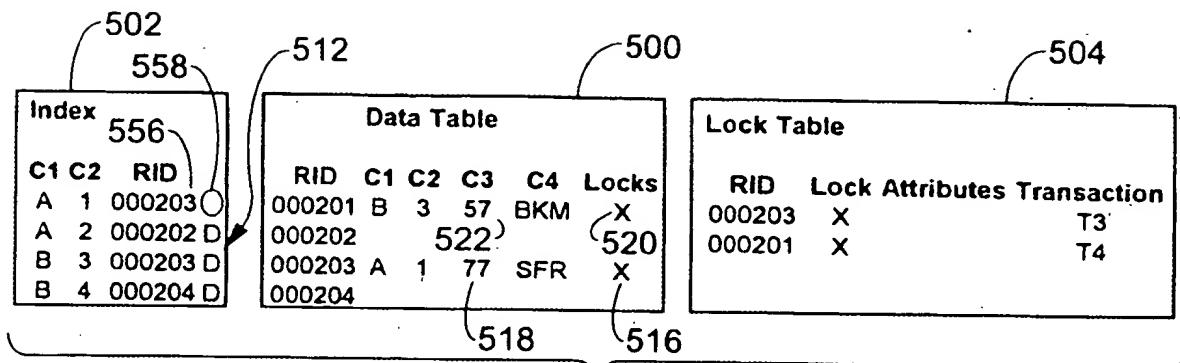


FIG. 5(E)

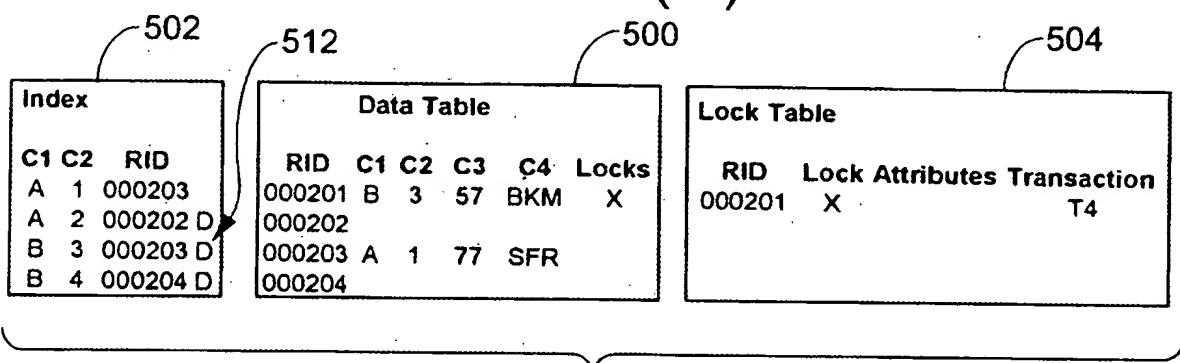


FIG. 5(F)

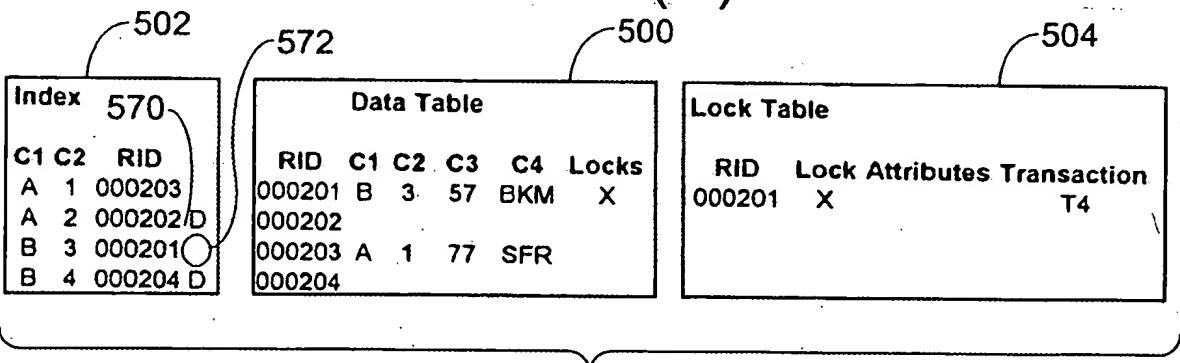


FIG. 5(G)

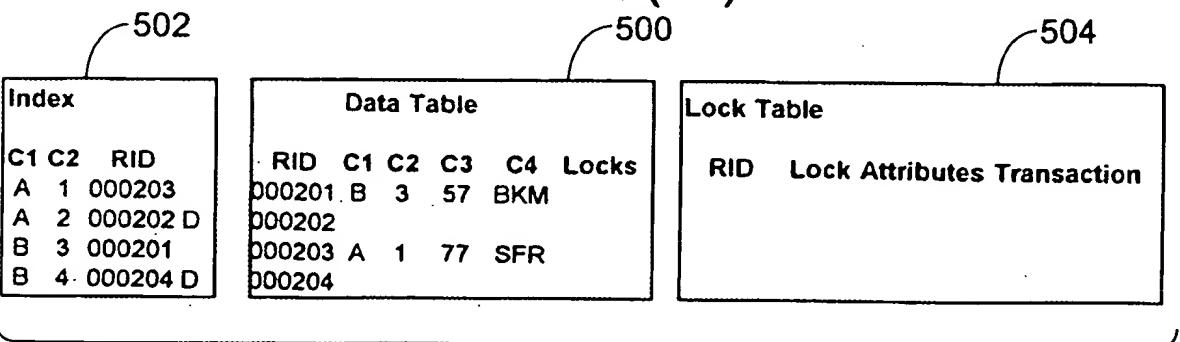


FIG. 5(H)

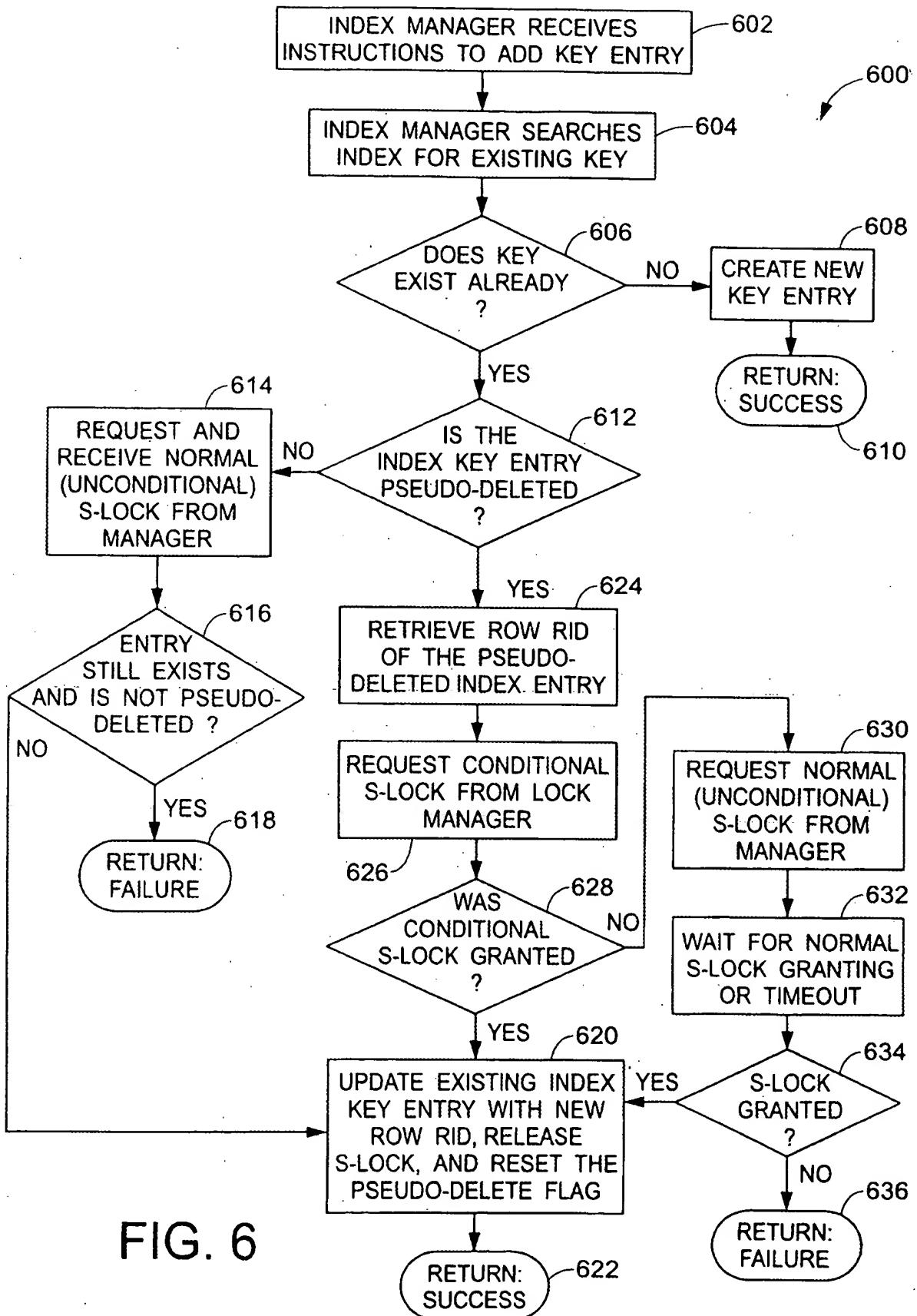


FIG. 6